

CLAIMS

Sub A5 1. A system for automatic generation of card-based presentation documents from multimedia data comprising:  
a presentation style transformer; and  
a card-based presentation generator connected to said presentation style transformer.

10 2. A system for automatic generation of card-based presentation documents from multimedia data as claimed in claim 1 wherein said presentation style transformer comprises:

15 a processor for receiving a card display schema and for processing said card display schema to describe meta rules about presentation resources and content variable definitions for a card-based presentation specification.

20 3. A system for automatic generation of card-based presentation documents from multimedia data as claimed in claim 1 wherein said presentation style transformer comprises:

a resource generator; and  
a style proceduralizer.

25 4. A system for automatic generation of card-based presentation documents from multimedia data as claimed in claim 3 wherein said style proceduralizer comprises:

30 a card-based context tree builder;  
a content node path walker connected to said card-based context tree builder; and  
a content mapping rule generator connected to said content node path walker.

Sub A2 35 5. A system for automatic generation of card-based presentation documents from multimedia data as claimed in

claim 1 wherein said card based presentation generator comprises:

- a presentation construct mapper;
- a card-based DSSSL processor connected to said presentation construct mapper; and
- an FOD converter connected to said card-based DSSSL processor.

6. A system for automatic generation of card-based presentation documents from multimedia data comprising:  
presentation style transformer means for receiving a card layout style specification and a card display schema and for providing a card-based presentation specification; and

card-based presentation generator means connected to said presentation style transformer means for receiving said card-based presentation specification and a card-based document content and for providing formatting object descriptions.

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7. A system for automatic generation of card-based presentation documents from multimedia data as claimed in claim 6 wherein said presentation style transformer means comprises:

resource generator means for receiving said card layout style specification and said card display schema and for providing said card-based presentation specification; and

style proceduralizer means for receiving said card layout style specification and said card display schema and for providing said card-based presentation specification.

8. A system for automatic generation of card-based presentation documents from multimedia data as claimed in



5 11. A system for automatic generation of card-based  
presentation documents from multimedia data as claimed in  
claim 10 wherein said card-based document flow object  
5 tree comprises:

a specification of a sequence of FODfo flow objects.

12. A method for automatic generation of card-based  
presentation documents from multimedia data comprising  
10 the steps of

transforming a presentation style; and  
generating a card based presentation.

13. A method for automatic generation of card-based  
15 presentation documents from multimedia data as claimed in  
claim 12 wherein transforming a presentation style  
comprises the steps of:

resource generating presentation resource  
descriptions; and

20 translating declarative card layout style  
specifications into procedural card-based presentation  
specifications.

14. A method for automatic generation of card-based  
25 presentation documents from multimedia data as claimed in  
claim 13 wherein translating declarative card layout  
style specifications comprises the steps of:

building a card-based context tree;

building context paths; and

30 generating a content mapping rule.

15. A method for automatic generation of card-based  
presentation documents from multimedia data as claimed in  
claim 14 wherein generating a content mapping rule  
35 comprises the steps of:

getting a next context path;  
deciding whether last path;  
visiting a next node;  
deciding whether end of path;  
5 deciding whether node is visited before;  
creating a context attribute value;  
creating <DefineVAR>s for rule mapping;  
creating <CaseExpr> or <IfExpr> if multiple node  
types exist; and  
10 deciding a node category.

542260-2320460  
16. A method for automatic generation of card-based  
presentation documents from multimedia data as claimed in  
15 claim 12 wherein generating a card based presentation  
comprises the steps of:  
mapping CPS constructs into card-based DSSSL style  
constructs;  
creating card-based document flow object tree; and  
20 converting card-based document flow object tree into  
formatting object descriptions.